PLAN OFFICIEL



Autographié et imprimé par A. Jailly, Fournisseur de la Comm.on Imp.le de l'Exposition Universelle de 1867. 7 rue Oberkampf, Paris

(17)

Andrew Johnson

President of the United States of America:

To all who shall see these Presents, Greeting:

Know Ye: That reposing special trust and confidence in the integrity and ability of Abram S. Hewitt of New York I have nominated and by and with the advice and consent of the Senate do appoint him to be a Commissioner on the part of the United States, to the Universal Exhibition to be held at Paris in 1867, and do authorize and empower him to execute and fulfil the duties of that Office according to Law, and to have and to hold the said Office, with all the powers privileges and emoluments thereunto of right appertaining, unto him, the said Abram S. Hewitt, subject to conditions prescribed by law.

In Testimony whereof, I have caused these Letters to be made patent and the seal of the United States to be hereunto affixed.

Given under my hand, at the City of Washington, the Second day of March in the year of our Lord, one thousand eight hundred and sixty seven and of the Independence of the United States of America, the Ninety-first

Andrew Johnson

By the President:

[illegible] Secretary of State.

EXPOSITION UNIVERSELLE
DE 1867
A PARIS.

COMMISSARIAT GÉNÉRAL

COMMISSION IMPÉRIALE.

Paris, Champ-de-Mars, Pavillon du Commissariat général,
le 9 Octobre 1868.

Monsieur,

La Commission Impériale m'a chargé de vous offrir deux médailles de Bronze, en témoignage des services que vous avez rendus à l'œuvre internationale.

J'ai l'honneur de vous annoncer que ces médailles vous parviendront par les soins de la Commission de votre Gouvernement.

Agréez, Monsieur, l'assurance de ma considération la plus distinguée.

P. Le Sénateur, Commissaire général,
Le Secrétaire adj. de la Commission Impériale.

Mantitz

Monsieur Abram S. Hewitt

EXPOSITION UNIVERSELLE DE 1867

A PARIS.

La Commission Impériale
offre
à Mr. Abram S. Hewitt
Membre de la Commission des États-Unis d'Amérique
deux Médailles
en témoignage des Services rendus
à l'œuvre internationale.

Paris, le 5 Janvier 1868.

Le Sénateur, Commissaire général,

F. Le Play

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EXPOSITION UNIVERS

DE 1867

A PARIS.

COMMISSARIAT GÉNÉ

Monsieur

EXPOSITION UNIVERSELLE. 1867 PARIS



PIERRE PETIT PHOT. DE LA COMM^ON IMPÉRIALE

AD^ON DE LA CONCESSION 47. RUE LE PELETIER

Exposition Universelle, 1867 Paris



PIERRE PETIT PHOT. DE LA COMMon IMPERIALE

ADon DE LA CONCESSION 47 RUE LE PELETIER

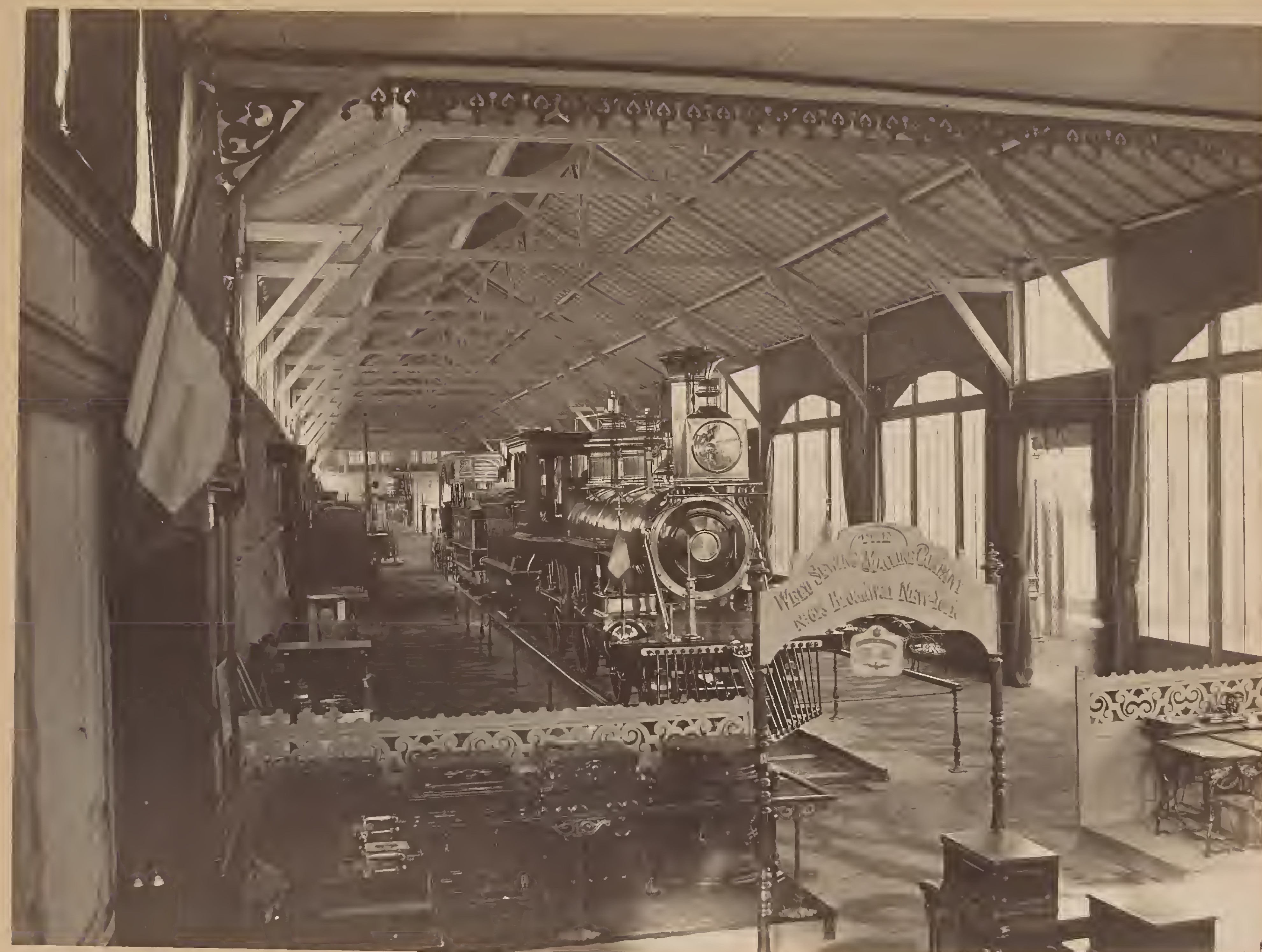
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ADON DE LA CONCESSION, 47, RUE LE PELETIER

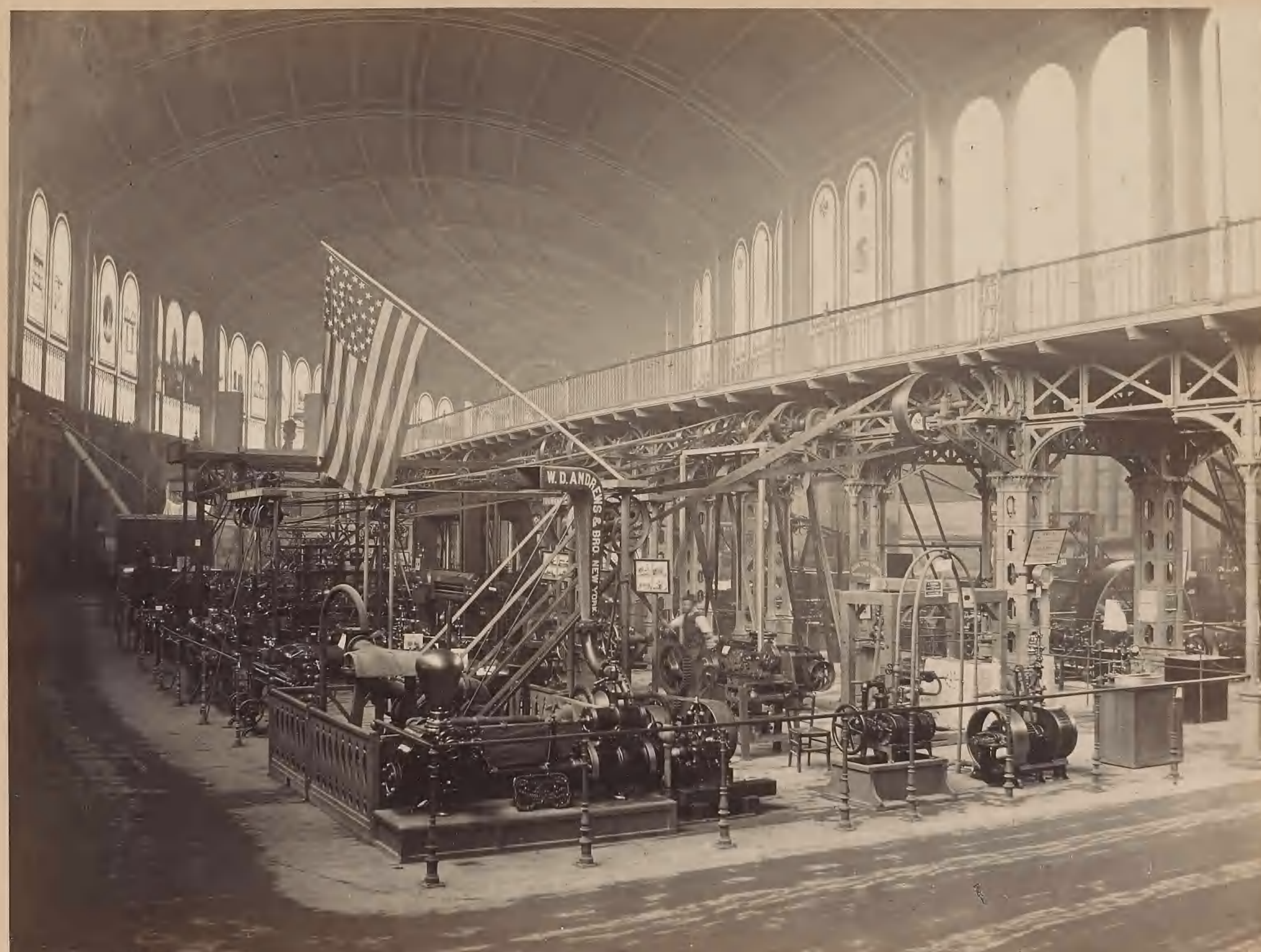
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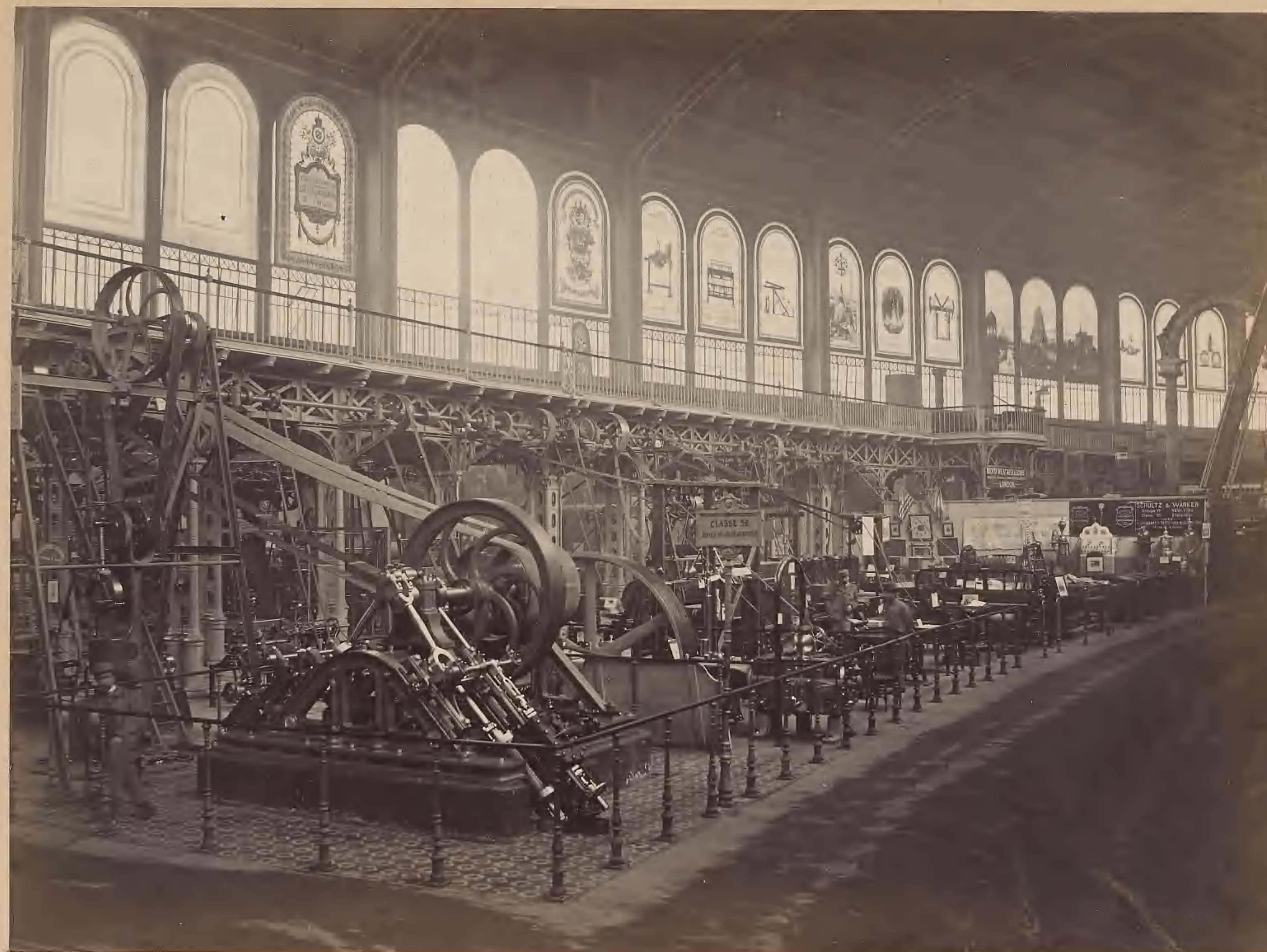
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ADON DE LA CONCESSION. 47. RUE LE PELETIER



EXPOSITION UNIVERSELLE DE 1867

Publié par M. LÉCH[illegible] et J. [illegible] Bd Sébastopol, Paris



Exposition Universelle de 1867

Publié par M. LEON et J LEVY, 113 Bt Sebastopol Par.

EXPOSITION UNIVERSELLE, 1867 PARIS



PIERRE PETIT PHOT DE LA COMMON IMPERIALE

ADMON DE LA CONCESSION 47 RUE LE PELETIER

EXPOSITION UNIVERSELLE, 1867 PARIS



PIERRE PETIT PHOT. DE LA COMM^ON IMPÉRIALE

ADON DE LA CONCESSION, 47, RUE LE PELETIER

EXPOSITION UNIVERSELLE, 1867 PARIS



PIERRE PETIT PHOT DE LA COMM^{ON} IMPERIALE

AD^{ON} DE LA CONCESSION, 47, RUE LE PELETIER

EXPOSITION UNIVERSELLE, 1867 PARIS



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ADON DE LA CONCESSION, 47, RUE LE PELETIER

EXPOSITION UNIVERSELLE. 1867 PARIS



PIERRE PETIT PHOT. DE LA COMM^{on} IMPÉRIALE

AD^{on} DE LA CONCESSION 47, RUE LE^{r} PELETIER

EXPOSITION UNIVERSELLE. 1867. PARIS



PIERRE PETIT PHOT. DE LA COMMon IMPÉRIALE

ADon DE LA CONCESSION 47. RUE LE PELETIER

UNIVERSAL EXHIBITION, PARIS, 1867.

REPORT OF N. M. BECKWITH.

The examination of products and making awards was committed to international juries, numbering in all six hundred members.

The number of jurors taken from each nation was in proportion to the ground occupied by each in the Exhibition, and the general commissioner of each nation nominated the jurors allotted to his national section.

The organization comprised one special jury, ninety-four juries of classes, ten juries of groups, and a superior council.

The work was divided and distributed among them as follows:

I. The subjects which were presented for the new order of recompenses, intended for persons, establishments, or localities, which, by organization or special institutions, have developed harmony among co-operators and produced in an eminent degree the material, moral, and intellectual well-being of the workmen, were submitted to a special jury of twenty-five members, whose decision was final.

II. The examination of group No. 1, comprising the five classes of fine arts, was committed to four separate juries, whose reports were subject to revision and adjustment by a group jury formed of the four class juries united, numbering sixty-four members, whose decision was final.

III. The remaining ninety classes of products were submitted to the inspection of the corresponding ninety class juries, whose work was subject to revision by the group juries and superior council.

Each class jury elected from its own body a president, vice-president, and reporter.

The nine group juries were composed of the presidents and reporters of the ninety class juries, with the addition of a president and two vice-presidents to each group jury, not taken from the class juries, but specially appointed by the respective general commissioners of the national sections to which these appointments were allotted. The secretary for each group jury was appointed by the imperial commission.

The superior council was formed of the presidents and vice-presidents of the nine group juries, presided by one of the vice-presidents of the imperial commission.

IV. The organization thus comprised—

		Members.
One special jury on new order		25
One class and group jury on fine arts		64
Ninety class juries, numbering in all		483
Nine group juries, numbering—		
Presidents and vice-presidents of classes	180	
Added, nine presidents and eighteen vice-presidents	27	27
	207	
One superior council—		
Presidents and vice-presidents of groups	27	
One presiding officer added	1	1
	28	
Total		600

V. The duties of the class juries were to examine the products in detail in their respective classes, and make lists of the exhibitors whose products they considered deserving of awards, naming the award they proposed for each, and the reason of it, which completed their work.

The reports on products and exhibitors thus drawn up were passed to the group juries, whose duty it was to revise them, concurring in the recommendations of the class jurors as far as approved, modifying the parts not approved, and sending them in this form to the superior council.

The duty of the superior council was to decide upon the whole number of awards to be made, and the number of each grade of awards, for which purposes they had a limited authority to add to the whole number which had been recommended, and power to diminish the whole number called for by the juries. Having determined the whole number and the grades, they apportioned the numbers and grades to each group for distribution, and in this form returned the work to the respective group juries, whose remaining duty it was to adjust the awards made to the numbers and grades thus placed at their disposal, retrenching the names, if any in excess of their means; and this adjustment was final.

The classification of products adopted by the imperial commission having been made known two years in advance, and the national allotments of jurors made public at an early period, ample time had been given for the selection of jurors qualified to appreciate the particular class of products on which each was to be placed.

A more highly competent body of experts in the products of every industrial art and science was probably never assembled for a similar purpose. The rapidity of their appreciations, in many cases, was not in conformity with the views of exhibitors, who thought more time and explanation would have made their products better understood. But men devoted to special studies, familiar with first principles and acquainted with their application, modified by human skill, in almost every form, seldom meet with a product in their line so entirely new in principle, so ingenious in design, or so complicated in structure, as to make it difficult for them to arrive at a correct opinion upon its general merits in a short space of time. Exceptions occur, but the inventive skill of producers rarely exceeds the comprehension of experts, and the general accuracy of the conclusions of the juries will, without doubt, be proved by experience and largely confirmed by public opinion.

In the ceaseless struggle to gratify human wants, scientific, mechanical, and industrial progress are developed unequally in different countries and in different localities of the same country. Bringing together the best fruits of industry and skill from all regions facilitates the exchange and diffusion of the arts and methods of production, and equalizes the common stock of intelligence. All are gainers in the highly civilized commerce which consists in the gratuitous exchange of useful ideas and practical knowledge, together with the methods of their application in every form to ameliorate the material and moral condition of mankind.

The united verdict of the international jury, composed in great part of professional men of known skill and established reputations, is the ablest and soundest judgment that will be pronounced on the relative condition of the arts of industry at the present time, as displayed in the products of all countries.

Ninety-five juries, working simultaneously and independently, and rendering in every department separate reports, produce, when collated, revised, and confirmed, an aggregate verdict of reliable value.

The relative condition of national industries thus indicated will be most easily and readily understood by a tabular statement, divested of the embarrassment of superfluous figures and variable numbers, showing merely the percentage of awards to exhibitors.

Percentage was not the object, but is the inevitable result, of awards, and it is the most unquestionable expression, in a concentrated and reliable form, of the united opinion of the whole body of jurors, the importance of which is not diminished by its being unforeseen and unpremeditated.

The table which follows shows in the first line the percentage of awards of each grade, and the total average percentage. The percentage of awards in each grade results from a comparison of the whole number of awards in each grade with the whole number of exhibitors in the Exhibition; and the total average percentage results from a comparison of the whole number of awards with the whole number of exhibitors; this total average results equally from the sum of the averages of the grades.

The subsequent lines show in like manner the percentage applicable to each country. In these the percentages of awards in each grade result from the whole number of awards in each grade, made *to the country named*, compared with the whole number of exhibitors *from that country*; and the total average percentage of each country results from a comparison of the total number of awards and total number of exhibitors pertaining to the country named, or, equally from the sum of the preceding percentages.

The lines read horizontally show, therefore, the percentage of grades and awards to each country, and the columns read vertically present the relative grades and awards of each country compared with the other countries.

	Percentage of grand prizes.	Percentage of gold medals.	Percentage of silver medals.	Percentage of bronze medals.	Percentage of honorable mentions.	General average percentage.
General average percentage of awards to exhibitors	0.00175	0.02221	0.08113	0.12759	0.11265	34.53
Special average:						
France	0.00306	0.04272	0.14742	0.20086	0.16166	55.57
United States	0.00932	0.03171	0.13432	0.17910	0.17350	52.79
Austria	0.00095	0.02722	0.12273	0.18194	0.14326	47.60
Prussia and North Germany	0.00226	0.02890	0.10760	0.18497	0.15028	47.40
Belgium	0.00161	0.01834	0.10518	0.15428	0.15326	43.26
Russia	0.00073	0.01538	0.06593	0.14945	0.10915	34.06
Switzerland	0.00092	0.01944	0.07500	0.11388	0.10926	31.85
Great Britain and colonies	0.00178	0.01829	0.06217	0.09531	0.08338	26.10
Italy	0.00122	0.00589	0.02826	0.06311	0.09338	19.18
Spain	0.00000	0.00794	0.02950	0.07630	0.07333	18.70

The percentage of awards to the exhibitors of the remaining twenty-five countries falls below the preceding.

The ardor of competition in a great international assembly, with the eagerness and suspense which precede the declaration of awards after that event, display the reaction common to all excitements. The awards of the successful, so desirable by anticipation, diminish in importance by possession, and seldom give satisfaction; while the unsuccessful, with more courage or more philosophy, find little difficulty in adopting the conclusion of their friends who have succeeded, that the whole affair has been greatly overrated.

Neither of these impressions is probably very accurate. Experience on former occasions has in the main justified the awards of the juries, and they have served not only to confirm established reputations, but to bring into more prominent notice the excellent products of thousands of skilful and worthy producers, who labored previously in comparative obscurity, and whose improved fortunes date from those periods. But the benefits resulting from this are not limited to the successful exhibitors. They are naturally stimulated to renewed efforts to maintain their new positions, which quickens their invention, improves their products, and raises their own standards, whilst their rivals and competitors, who, if equally skilful, are less lucky, are thereby compelled to work up to this higher level. A new spirit is thus breathed into every department of industry, and the benefits of increased production, improved qualities and varieties, and diminished cost become universal.

The influence of exhibitions in producing the remarkable rise and equalization of the industrial arts over a large portion of the civilized world, increasing useful products and augmenting the growth of commerce, is conspicuous everywhere and obvious to every intelligent mind which has been turned to the subject under circumstances favorable to observation.

Their effects also in a scientific, economic, and political sense are subjects of great interest, but may be with more propriety separately considered.

The high position conceded by the verdict of the juries to American industrial products is not due in general to graceful design, fertile combinations of pleasing colors, elegant forms, elaborate finish, or any of the artistic qualities which cultivate the taste and refine the feelings by awakening in the mind a higher sense of beauty, but it is owing to their skilful, direct, and admirable adaptation to the great wants they are intended to supply, and to the originality and fertility of invention which converts the elements and natural forces to the commonest uses, multiplying results and diminishing toil.

The peculiar and valuable qualities of our products will be adopted and reproduced in all parts of Europe, improving the mechanical and industrial arts, and it is reasonable to expect and gratifying to believe that the benefits will be reciprocal, that our products will in time acquire those tasteful and pleasing qualities which command more admiration and find a quicker and better market than the barely useful.

The reports of the United States commissioners upon the important subjects selected by them will undoubtedly command attention.

For a general survey of the Exhibition I refer with confidence to the able sketches of Commissioner Seymour, written with clearness and freedom, in a flowing and agreeable style, free from the stiffness of technical language; and to the more detailed observations of Commissioner T. W. Evans, on the American section, which will convey to those interested, especially in that department, correct general information on the products of our own country.

I refer with equal confidence to the annexed list of special reports of a more practical character, on subjects of particular importance to the great industries of the country. Several of these reports are from professional men whose established reputations guarantee the thoroughness of their studies and the accuracy of their work, whilst the authors who have not yet acquired this authority may reasonably expect to obtain it from the just appreciation of the public. In this connection I cannot deny myself the pleasure of alluding to the assiduity, the ability, the zeal, and the excellent spirit which have animated the commissioners in devoting so long a period to labors adapted to promote the common welfare and prosperity of the country.

N. M. BECKWITH,
United States Commissioner General.

PARIS, *January* 17, 1868.

SPECIAL REPORTS.

By Professor F. A. P. BARNARD—
On new inventions, scientific apparatus, and instruments of precision.
By Professor J. LAWRENCE SMITH—
On methods and processes in chemical science, &c., &c.
By Professor S. F. B. MORSE—
On the transmission of intelligence.
By Mr. ABRAM S. HEWITT—
On Bessemer steel, and
On iron and steel.
By Mr. W. S. AUCHINCLOSS, civil engineer—
On railway materials, locomotives, and marine engines.
By Mr. S. B. RUGGLES—
On minerals, agricultural products, and
On inland and ocean transportation.
By Mr. C. B. SEYMOUR—
On important products in science and art.
By T. W. EVANS, M. D.—
On instruments and apparatus of surgery, surgical dentistry, and military sanitary institutions.
By Mr. L. F. BECKWITH, civil engineer—
On the fabrication of béton, concrete, cements, and construction of sewers, tanks, wells, &c., &c.
By Mr. ARTHUR BECKWITH, civil engineer—
On asphalts and bitumen, and the construction of streets, sidewalks, &c., &c., and
On macadamized roads.
By Mr. E. C. COWDIN—
On the culture and manufacture of silk.
By Mr. C. B. NORTON—
On fire-arms and materials of war.
By Mr. PARAN STEVENS—
On pianos an musical instruments, and
On clothing.
By WILLIAM E. JOHNSTON, M. D.—
On the preparation of food.
By Mr. FRANK LESLIE—
On the practical application of fine arts.
By Professor J. W. HOYT—
On educational apparatus.
By Mr. J. H. BOWEN—
On building materials and methods of building.
By Mr. J. R. FREEZE—
On education, school-houses, &c.
By Mr. J. P. REYNOLDS—
On wools and agricultural products.
By Mr. E. R. MUDGE—
On woollen manufactures, &c.
By Professor WILLIAM P. BLAKE—
On gold, silver, and precious metals.
By Mr. M. P. WILDER,
WILLIAM J. FLAGG, and
A. THOMPSON—
On the vine and its culture, and
On horticulture, pomology, &c.
By H. F. Q. D'ALIGNY, civil engineer—
On minerals and metallurgy,
On apparatus for boring tunnels,
On apparatus for rock-breaking and stamping, washing and separating ores and minerals,
On pressed coal, its uses, &c., &c.,
On precious metals,
On sugar-beet and beet-sugar,
On trans-atlantic cable,
On sewing-machines,
On copper and coal.

LIST OF UNITED STATES COMMISSIONERS TO THE PARIS UNIVERSAL EXHIBITION OF 1867.

Professor F. A. P. Barnard. of New York.
Professor J. Lawrence Smith, of Kentucky.
Professor J. P. Lesley, of Pennsylvania.
H. F. Q d'Aligny, mining engineer, of Mich.
J. P. Kennedy, of Baltimore.
S. B. Ruggles, of New York.
A. S. Hewitt, of New York.
Wm. Slade, of Ohio.
James H. Bowen, of Illinois.
Paran Stevens, of Massachusetts.
A. T. Stewart, of New York.
C. B. Norton, of New York.
W. J. Valentine, of London.
Dr. T. W. Evans, of Paris.
F. Leslie, of New York.
E. R. Mudge, of Massachusetts.
A. B. Budd, of New York.
C. B. Seymour, of New York.
C. R. Goodwin, of Paris.
C. R. Garrison, of New York.
Robert Berney, of Paris.
J. R. Freeze, of New Jersey.

HONORARY COMMISSIONERS.

Dr. A. Thompson, of New York.
M. P. Wilder, of Massachusetts.
L. F. Mellen, of Alabama.
Professor S. F. B. Morse, of New York.
J. P. Reynolds, of Illinois.
W. J. Flagg, of Ohio.
Professor J. T. Frazer, of Pennsylvania.
E. C. Cowdin, of New York.
G. S. Hazard, of New York.
Dr. W. E. Johnston, of Paris.
P. Barry, of New York.
J. H. Chadwick, of Massachusetts.
Professor J. W. Hoyt, of Wisconsin.
Wm. H. Anchincloss, civil engineer, of New York.
J. Archer, of Missouri.

EXECUTIVE.

J. C. DERBY, United States general agent, New York.
N. M. BECKWITH, commissioner general and president of the commission, New York.
A. P. MULAT, W. C. GUNNELL, } engineers and architects.
J. N. PRŒSCHEL, secretary.

LIST OF THE MEMBERS OF THE INTERNATIONAL JURY ALLOTTED TO THE UNITED STATES.

Chas. C. Perkins, new order of awards.
W. T. Hoppin, group I, classes 1 and 2.
J. P. Kennedy, group I, class 3.
R. M. Hunt, architect, group I, class 4.
Frank Leslie, (supplemented by Dr. T. W. Evans,) group I, class 5.
W. A. Adams, (supplemented by W. T. Hoppin and Dr. T. W. Evans,) group II, class 9.
J. R. Freeze, (supplemented by Dr. T. W. Evans,) group II, class 11.
Professor F. A. P. Barnard, group II, class 12.
Wm. Slade, group III, class 20.
Professor J. P. Leslie, (supplemented by Professor T. S. Hunt,) group VI, class 51.
C. R. Goodwin, engineer, group VI, class 52.
J. E. Holmes, engineer, group VI, class 54.
H. F. Q. d'Aligny, engineer, group VI, class 57.
J. Debeauvais, engineer, associate juror in group VI, class 54.
J. P. Reynolds, juror on agricultural trials at Billancourt.

LIST OF AWARDS, ALPHABETICALLY ARRANGED.

SUMMARY.

Grand prizes	5
Artists' medal	1
Gold medals	18
Silver medals	76
Bronze medals	98
Honorable mentions	93
Total awards	291

SECTION OF THE UNITED STATES.

Awards of the International Juries.

NEW ORDER OF RECOMPENSES

For persons, establishments, or localities, which, by organizations, or special institutions, have developed harmony among co-operators, and produced, in an eminent degree, the material, moral and intellectual well-being of the workmen.

GRAND PRIZE.

Chapin, ———, Lawrence, Massachusetts; a gold medal of the value of 1,000 francs, and 9,000 francs in gold.

HONORABLE MENTION.

Agricultural Society, of Vineland, New Jersey.

FINE ARTS.

Church, F. E., New York city; landscape paintings in oil; the artists' medal, with 500 francs in gold.

AGRICULTURE AND INDUSTRY.

GRAND PRIZES.

Field, Cyrus W., and the Anglo-American Transatlantic Telegraph Company; transatlantic cable.
Hughes, ———, New York city; printing telegraph.
McCormick, C. H., Chicago, Illinois; reaping machines. To this grand prize, gained in the field trials of agricultural machines, was added, by the Emperor, the Cross of Chevalier of the Legion of Honor.
United States Sanitary Commission; ambulances, materials, instruments, &c., for the relief of the wounded, used in the late war.

GOLD MEDAL, WITH WORK OF ART.

Wood, Walter A., Hoosick Falls, New York; mowing machines. To this prize, gained in the field trials of agricultural machines, was added, by the Emperor, the Cross of Chevalier of the Legion of Honor.

GOLD MEDALS.

Chickering & Son, New York and Bostou; pianos. To this gold medal was added, by the Emperor, the Cross of Chevalier of the Legion of Honor.
Corliss Steam Engine Company, Providence, Rhode Island; the Corliss engine.
Fire-arm Manufacturing Indnstry of the United States; fire-arms.
Grant Locomotive Works, Paterson, N. J.; locomotive and tender.
Howe, Elias, jr., "promoter of the sewing machine." To this gold medal was added, by the Emperor, the Cross of Chevalier of the Legion of Honor.
McCormick, C. H., Chicago, Illinois; reaping and mowing machines.
Meyer, Victor, Parish of Concordia, Lonisiana; short staple cotton.
Rodgers, C. B., & Co., Norwich, Connecticut; wood-working machines.
Sellers, William, & Co., Philadelphia; machine tools.
Steinway & Son, New York city; pianos.
Trager, L., Blackhawk Point, Lonisiana; short staple cottou.
Walbridge, Wells D., New York city; gold and silver ores from Idaho.
Welch, Patrick, New York city; type-dressing machine.
Wheeler & Wilson, New York city; sewing and bntton-hole machines.
White, S. S., Philadelphia; artificial teeth and deutists' instrnments and furniture.
Whitney, J. P., Boston, Massachusetts; silver ores from Colorado.
Wood, Walter A., Hoosick Falls, New York; reaping and mowing machines.

SILVER MEDALS.

Alabama, State of; short staple cotton.
American Button-hole Company, Philadelphia; sewing and button-hole machines.
Baker, W., & Co., Dorchester, Massachnsetts; chocolates.
Barnes, Snrgeon General J. K., United States army, Washington; snrgical instruments, hospital apparatus, &c.
Bement & Dougherty, Philadelphia; machine tools.
Bergner, Theodore, Philadelphia; co-operator—engineer of Messrs. W. Sellers & Co.
Bidwell, J. C., Pittsbnrg, Pennsylvania; Comstock's rotary spader.
Bigelow, H., Boston, Massachusetts; copper and minerals from Lake Snperior.
Blake, William P., San Francisco, California; California minerals.
Bond, William, & Son, Boston, Massachusetts; astronomical clock and chronograph.
Browne, J. R., & Sharpe, Provideuce, Rhode Island; screw-cntting and milling machines.
Burt, E. C., New York city; machine-sewed boots and shoes.
California, State of; cereals.
Cape, Cnlver & Co., New York city; hams.
Chapin & Wells, Chicago, Illinois; model of a swing bridge.
Chicago Board of Public Works, Chicago, Illinois; design of the lake tnnnel.
Clark Thread Company, Newark, New Jersey; cotton yarus.
Collins & Co., New York city; steel ploughs.
Cool, Fergnson & Co., Glen Falls, New York; barrel machines.
Colt's Patent Fire-arms Manufacturing Company, Hartford, Connecticut; fire-arms.
Crompton, G., Worcester, Massachusetts; loom for cloths.
Culbertson, Blair & Co., Chicago, Illinois; salted meats.
Daboll, C. L., New London, Connecticut; fog signal.
D'Aligny, H. F. Q., co-operator in the organization of the United States section.
Darling, Browne & Sharpe, Bangor, Maine; steel measures.
Delpit, A., & Co., New Orleans, Louisiana; snuff.
Dixon, J., & Co., Jersey City, New Jersey; plumbago crucibles.
Donglass Axe Manufacturing Company, Boston, Massachusetts; edge tools.
Duffield, Charles, Chicago, Illinois; hams.
Fairbanks, E. & T., & Co., St. Johnsbury, Vermont; scales.
Florence Sewing Machine Company, New York city; sewing machines.
Fournier, S., New Orleans, Louisiana; electric clocks.
Glen Cove Starch Manufacturing Company, New York city; "maizena" and starch.
Gotthiel, Edward, New Orleans, Louisiana; co-operator, services rendered to agriculture in Lonisiana.
Gregg, Isaac, Philadelphia; brick-making machine.
Gunther, C. G., & Son, New York city; furs.
Hall, J., & Son, Boston, Massachusetts; buggy.
Howe Machine Company, New York city; sewing machines.
Howe, Dr. S. G., Boston, Massachusetts; works for the blind.
Illinois Central Railroad Company, Chicago, Illinois; agricultural products.
Illinois, State of; collection of minerals.
Illinois, State of; farmer's house.
Illinois, State of; school-house.
Jackson, Dr., co-operator; discovery of emery.
Lamb, J. W., Rochester, New York; knitting machine.
Lawrence, E., Louisiana; sugars.
Mason & Hamlin, New York city; cabinet organs.
Nevada, State of; silver and copper ores.
New York Mills, New York; muslins.
Opper, Morris, New York; loom for corsets.
Park Brothers & Co., Pittsburg, Pennsylvania; cast-steel and edge tools.
Partridge Fork Works, Leominster, Massachusetts; steel hay-forks, rakes, &c.
Pease, F. S., Bnffalo, New York; petroleum oils.
Perry, J. G., Kingston, Rhode Island; mowing machine. This prize was gained in the field trials of agricultural machines.
Pigné, J. B., San Francisco, California; minerals.
Provideuce Tool Company, Providence, Rhode Island; Peabody's patent fire-arms.
Remington, E., & Son, Ilion, New York; fire-arms.
Rntherford, L. M., New York city; astronomical photographs.
Schnltz & Warker, New York city; mineral water apparatus.
Schuttler, Peter, Chicago, Illinois; wagon.
Smith & Wesson, Springfield, Massachusetts; fire-arms and cartridges.
Spencer Repeating Rifle Company, Boston, Massachusetts; Spencer rifles.
Taft, J. B., Chester, Massachusetts; emery.
Tieman, G., Philadelphia; surgical instruments.
Tolles, R. F., Canastota, New York; microscopes.
Tucker, H., & Co., New York city; iron ornaments, imitation of bronze.
United States Government, specimens of frame houses for settlers.
Wales, William, Fort Lee, New Jersey; optical instruments.
Wardwell, G. I., New York city; stone-quarrying machine.
Washington Mills, Boston, Massachusetts; woollen fabrics.
Webster Woollen Mills, Webster, Massachusetts; woollen fabrics.
Weed Sewing Machine Company, New York city; sewing machines.
Whitney, B. D., Winchendon, Massachusetts; wood-working machines.
Windsor Manufacturing Company, Windsor, Vermont; Ball's patent fire-arms.
Wood Brothers, New York city; phæton.
Yale & Winn Mannfacturing Company, Shelburne Falls, Massachusetts; Yale locks.

BRONZE MEDALS.

Abbey, C., & Sons, Philadelphia; dentists' gold foil.
American Lead Pencil Company, New York city; lead pencils.
Appleton, D., & Co., New York city; books.
Babcock, J. F., Boston, Massachusetts; rosin oil.
Baltimore and Cuba Smelting and Mining Company, Baltimore, Maryland; copper.
Barlow, Milton, Lexington, Kentucky; planetarinm.
Bartram & Fanton Manufacturing Company, Danbury, Connecticut; sewing and button-hole machines.
Beer, Sigismund, New York city; stereoscopic views.
Belmont Oil Company, Philadelphia; oils.
Brigham, E. D., treasurer Portage Lake Smelting Works, Boston, Massachusetts; Lake Superior copper.
Brown & Level, New York city; disengaging tackle for boats.
Carpenter, W. S., New York city; collection of corn.
Carroll, J. W., Lynchburg, Virginia; smoking tobacco.
Cnmmings, W., & Son, Jersey City, New Jersey; model of a hospital car.
Day, A. G., Seymonr, Connecticnt; indelible pencils and lead pencils in India-rubber cases.
Deere & Co., Moline, Illinois; steel ploughs.
Degener & Weiler, New York city; printing presses.
Department of Agricnlture, Washington; collection of cereals.
Diss Debar, J. H., commissioner of West Virgiuia, Parkersburg, West Virginia; petroleum oils.
Douglass Manufacturing Company, New York city; edge tools.
Donglass, W. & B., Middletown, Connecticut; pumps.
Fairbanks, E. & T., & Co., St. Johnsbury, Vermont; railroad scale.
Fairchild, L. W., New York city; gold pens and cases.
Germünder, George, New York city; stringed instrnments.
Goddard, C. L., New York city; mestizo burring picker.
Goodenough Horseshoe Company, New York city; horseshoes.
Goodell, D. H., Antrim, New Hampshire; apple parer.
Gregg, Isaac, Philadelphia; model of a brick machine.
Hadley Company, Holyoke, Massachusetts; sewing cotton.
Harris, D. L., Springfield, Massachusetts; engine lathe.
Haupt, Herman, Philadelphia; tunnelling machine.
Herring, Farral & Sherman, New York city; fire and burglar proof safes.
Hoglin & Gafflin, Dayton, Ohio; tobacco cutting machine.
Hotchkiss, H. G., Lyon, New York; oils of peppermint, &c.
Hotchkiss, L. B., Phelps, New York; oils of peppermint, &c.
Houghton, H. O., & Co., Cambridge, Massachusetts; books.
Honse, Henry A., New York city; co-operator in the establishmeut of Wheeler & Wilson.
House, James A., New York city; co-operator establishment of Wheeler & Wilson.
Howe, A. B., New York city; sewing machines.
Howe Scale Company, Brandon, Vermont; scales.
Hudson, E. D., New York city; artificial limbs.
Hnmphres, J. C., parish of Rapides, Louisiana; short-staple cotton.
Illinois, State of; cereals and flours.
Jessnp & Moore, Philadelphia; papers.
Johnson, A. J., New York city; Johnson's Family Atlas.
Johnson, B., Louisiana; sugars.
Johnson & Lund, Philadelphia; artificial teeth.
Justice, P. S., Philadelphia; power hammer.
Kansas, State of; collection of cereals.
Lilienthal, C. H., New York city; snuff and tobacco.
Lilienthal, Ch., New Orleans, Louisiana; photographic views.
Louisiana, State of; portable cottage.
Lyon, J. B., & Co., Pittsbnrg, Pennsylvania; pressed glassware.
Merriam, G. & C., Springfield, Massachusetts; Webster's Illustrated Dictionary.
Missiou Woollen Mills, San Francisco, California; woollen fabrics.
Moody, S. N., New Orleans, Louisiana; shirts.
Morris, Tasker & Co., Philadelphia; wringing machine.
Mnmford, Foster & Co., Detroit, Michigan; boot-trees, lasts, &c.
Murphy's, W. F., Sons, Philadelphia; blank books.
Ohio, State of; colleetion of cereals.
Olmstead, L. H., Stamford, Connecticnt; friction clutch pulley.
Partridge Fork Works, Leominster, Massachusetts; agricultural hand tools.
Pennsylvania, State of; anthracite coal.
Perry, J. G., Kingston, Rhode Islaud; mowing machine.
Pickering & Davis, New York city; engine governors.
Pratt & Wentworth, Boston, Massachnsetts; heating apparatus.
Pratt & Wentworth, Boston, Massachusetts; ecouomical cooking stove.
Randall, S. H., New York city; mica.
Reidel, G. A., Philadelphia; automatic boiler feeder.
Richards, Richard, Racine, Wisconsin; wool.
Roots, J. B., New York city; steam engine.
Roots, P. H. & F. M., Connersville, Indiana; rotary blower.
Sachse, F., & Sons, Philadelphia; shirts.
Sarrazin, J. R., New Orleaus, Louisiana; tobacco.
Schedler, Joseph, Hudson City, New Jersey; terrestrial globes.
Schreiber, Louis, New York city; brass instruments.
Secombe Manufactnring Company, New York city; ribbon hand stamps.
Shaw, C. A., Biddeford, Maine; knitting machine.
Shaw, Philander, Boston, Massaehusetts; hot air engiue.
Slater, S., & Son, Webster, Massachusetts; cotton fabrics.
Smith, McPhersou & Douald, New York city; ales and porter.
Southern Cotton-gin Company, Bridgewater, Massachusetts; cotton-gins.
Squire, J. J., New London, Connecticut; preserved fruits and vegetables.

Stursberg, H., New York city; beaver cloths.
Sweet, J. E., Syracuse, New York; composing machine.
Tamboury, A., parish of St. James, Louisiana; tobacco.
Tiffany & Co., New York city; silverware.
Townsend, W. H., New York city; oil-cloths.
Union Buttonhole and Embroidery Company, Boston, Massachusetts; button-hole machine.
Van Deusen, J. B., New York city; model of the yacht Fleetwing.
Warner, G. F., & Co., New Haven Connecticut; malleable iron castings.
Watkins, C. E., San Francisco, California; photographs—landscapes.
Wickersham Nail Company, Boston, Massachusetts; nail cutting machine.
Williams, T. C., & Co., Danville, Virginia; chewing and smoking tobaccos.
Wisconsin State Agricultural Society; agricultural products.
Wisconsin, State of; collection of minerals.
Wisconsin, State of; collection of cereals and flours.
Wright, R. & G. A., Philadelphia; perfumery.

HONORABLE MENTIONS.

Allen, J., & Son, New York city; artificial teeth.
American Steam Gauge Company, Boston, Massachusetts; steam gauges.
American Wine Company, St. Louis, Missouri; sparkling wines.
Andrews, W. D. & Brother, New York city; oscillating steam engine.
Avery, D. D., Petite Anse, Louisiana; rock salt.
Bacon, S. T., Boston, Massachusetts; cracker machinery.
Baker, G. R., St. Louis, Missouri; dough-kneading machine.
Bates, R., Philadelphia; instruments to cure stammering.
Bell Factory, Huntsville, Alabama; cotton fabrics.
Buena Vista Vinicultural Society, San Francisco, California; sparkling Sonoma wine.
Borden, Gail, New York city; extract of beef.
Bottler, Charles, Cincinnati, Ohio; sparkling Catawba wine.
Broughton & Moore, New York city; oilers, cocks, &c.
Bourgeois, E., New Orleans, Louisiana; tobacco.
Brandon Kaolin and Paint Company, Brandon, Vermont; specimens of paints.
Bray & Hays, Boston, Massachusetts; preserved lobster.
Brown, D. J., Roxbury, Massachusetts; enamelled leather.
Chipman G. W., & Co., Boston, Massachusetts; carpet lining.
Clark Steam and Fire Regulator Company, New York city; steam and fire regulator.
Cohn, M., New York city; crinoline.
Cozzens, F. S., New York city; cigars.
Dart, H. C., & Co., New York city; rotary steam engine.
Davidson, G., Washington; sextant.
Davidson, J., St. Bernard parish, Louisiana; sugars.
Day, A. G., Seymour, Connecticut; artificial India-rubber.
Duffy, I., Paterson, New Jersey; designs for improvements in iron-clad vessels.
Dwight, G., jr., & Co., Springfield, Massachusetts; steam pump.
Edson, W., Boston, Massachusetts; hygrodeik.
Elsberg, Dr. Louis, New York city; specimens of peat fuel.
Empire Sewing Machine Company, New York city; sewing machines.
Fries, Alexander, Cincinnati, Ohio; flavoring extracts.
Glass, Peter, Barton, Wisconsin; mosaic tables.
Goodenough Horseshoe Company, New York city; horseshoes.
Gould, I. D., Boston, Massachusetts; mica.
Herring, S. C., New York city; Bullard's hay tedder.
Hicks Engine Company, New York city; steam engine.
Hirsch, J., Chicago, Illinois; albumen, glycerine, &c.
Holliday, T. & C., New York city; aniline colors.
Howard, D. B., New York city; ambulance, &c.
Howell & Brother, Philadelphia; wall papers.
Iowa, State of; collection of cereals.
Jackson, J. H., New York city; minerals and fossils.
Kaldenberg & Son, New York city; meerschaum pipes.
Korn, C., New York city; calf-skin leather.
Lalance & Grosjean, New York city; house-furnishing hardware.
Linthicum, W. O., New York city; cloth clothing.
Longworth, Cincinnati, Ohio; sparkling wines.
McCormick, J. J., Meriden, Connecticut; skates.
Marietta and Gale's Fork Petroleum Company, Marietta, Ohio; petroleum oil.
Metropolitan Washing Machine Company, New York city; clothes wringers.
Metropolitan Washing Machine Company, New York city; washing machines.
Minnesota, State of; collection of cereals.
Moehring, H. G., agent of the Volcanic Oil Company, of West Virginia, Philadelphia; volcanic lubricating oil.
Montagne & Carlos, New Orleans, Louisiana; black moss for upholsterers.
Tasker & Co., Philadelphia; pipe-cutting machine.

New Haven Clock Company, New Haven, Connecticut; clocks.
Olmstead, L. H., Stamford, Connecticut; machine tools.
Oneida Community, Oneida, New York; preserved fruits.
Page, E. W., New York city; oars.
Paul, J. F., & Co., Boston; specimens of wood.
Pease, F. S., Buffalo, New York; pneumatic pump.
Perrot, T. Morris, Philadelphia; medicine wagon.
Pleasant Valley Wine Company, Hammondsport, New York; wines and brandy.
Portland Packing Company, Portland, Maine; preserved lobster and vegetables.
Prentice, J., New York city; cigar machine.
Purrington, G., jr., New York city; carpet sweeper.
Robinson, J. A., New York city; Ericsson hot-air engine.
Sabatier, G., Plaquemines parish, Louisiana; sugars.
Selpho, W., & Son, New York city; artificial limbs
Shelden, Joseph, New Haven, Connecticut; water-pressure regulator
Smith, R. M., Baltimore, Maryland; petroleum oils.
Steam Siphon Company, New York city; steam siphon pump.
Stephenson, J., New York city; street railway carriage.
Stockton, Samuel, Philadelphia; artificial teeth.
Tallman & Collins, Janesville, Wisconsin; perfumery.
Taylor, C. F., New York city; therapeutic apparatus.
Tilden Howard, Boston; sifter, tobacco-cutter, and egg-beater.
Townsend Brothers, New York city; preserved fruits and oysters.
United States Sanitary Commission; camp material.
Waltemeyer, Jacob, Baltimore, Maryland; preserved fruits.